

V I R G I N I A:

BEFORE THE VIRGINIA GAS AND OIL BOARD

APPLICANT: EQUITABLE PRODUCTION COMPANY )  
 ) VIRGINIA GAS  
 ) AND OIL BOARD

RELIEF SOUGHT: (1) MODIFICATION OF THE VGOB ORDER )  
 ESTABLISHING THE ROARING FORK ) DOCKET NO.  
 COALBED METHANE GAS FIELD ) 99-0817-0740-01  
 (herein "Roaring Fork Field Rules" )  
 TO EXCEPT THEREFROM THE FORMATIONS )  
 AND ROCK STRATA ASSOCIATED THERE- )  
 WITH KNOWN AS PENNSYLVANIAN AGE )  
 COALS FROM THE DORCHESTER SEAM UP )  
 TO THE TOP OF THE ROCKY FORK, )  
 INCLUDING THE UPPER CLINTWOOD, )  
 BOTTOM CLINTWOOD, BLAIR, LYONS AND )  
 THE DORCHESTER (herein "Subject )  
 Formations") WITHIN THE LANDS )  
 DESCRIBED AND DEPICTED IN COMPOSITE )  
 EXHIBITS A-1 THROUGH A-7, )  
 respectively; AND (2) ESTABLISHMENT )  
 OF SEVEN (7) COALBED METHANE GAS )  
 ("CBM") SEALED GOB UNITS ("SGU") )  
 WITHIN THE AREAS OF THE BULLITT )  
 MINE DESCRIBED AND DEPICTED IN SAID )  
 COMPOSITE EXHIBITS A-1 through A-7 )  
 (herein "Bullitt Mine CBM SGU A )  
 through G") )

**LEGAL DESCRIPTION:**

BULLITT MINE CBM SGU A THROUGH G  
(herein sometimes "Subject Drilling Units")  
ESTABLISHED FOR THE SUBJECT FORMATION  
WISE COUNTY, VIRGINIA  
(herein "Subject Lands" each of which unit is  
more particularly described and depicted in  
Composite Exhibits A-1 through A-7 hereto)

## REPORT OF THE BOARD FINDINGS AND ORDER

1. Hearing Date and Place: This matter came on for hearing before the Virginia Gas and Oil Board (herein "Board") at 9:00 a.m. on September 22, 1999, Southwest Higher Education Center, Campus of Virginia Highlands Community College, Abingdon, VA.
2. Appearances: James E. Kaiser of the firm Wilhoit & Kaiser, appeared for the Applicant. Sandra B. Riggs, Assistant Attorney General, was present to advise the Board.

3. **Jurisdiction and Notice:** Pursuant to Va. Code §§ 45.1-361.1 et seq., the Board finds that it has jurisdiction over the subject matter. Based upon the evidence presented by Applicant, the Board also finds that the Applicant has (1) exercised due diligence in conducting a search of the reasonably available sources to determine the identity and whereabouts of gas and oil owners, coal owners, mineral owners having an interest underlying the Subject Drilling Units; (2) has given notice to all such parties (hereafter sometimes "person(s)" whether referring to individuals, corporations, partnerships, associations, companies, businesses, trusts, joint ventures or other legal entities) entitled by Va. Code § 45.1-361.19 to notice of the application filed herein; and (3) that the persons set forth in Exhibit B hereto are persons identified by Applicant through its due diligence who are gas or oil owners, coal owners, or mineral owners having an interest underlying Subject Drilling Units. Further, the Board has caused notice of this hearing to be published as required by Va. Code § 45.1-361.19.B. Whereupon, the Board hereby finds that the notices given herein satisfy all statutory requirements, Board rule requirements and the minimum standards of state due process.
4. **Amendments:** None.
5. **Dismissals:** None.
6. **Relief Requested:** In order to achieve the greatest ultimate recovery of CBM Gas from Subject Formations within Subject Drilling Units underlying Subject Lands, conform to mine plans and promote mine safety, prevent or assist in preventing waste prohibited by the statute, and to protect correlative rights of all persons in the subject common sources of supply in the Subject Lands, Applicant requests that pursuant to Va. Code § 45.1-361.20, the Board: (1) modify its order entered May 31, 1994 in VGOB Docket No. 94-0215-0435 which established the Roaring Fork Coalbed Methane Gas Field in Wise, Russell, Scott and Lee Counties, VA to except from the operation of said field rules the production of CBM gas from the Subject Formations from with Subject Drilling Units; and (2) establish the Bullitt Mine CBM SGU Units A through G described and depicted in Composite Exhibits A-1 through A-7 hereto for the production of CBM gas from Subject Formations.
7. **Relief Granted:** The requested relief in this cause be and hereby is granted: (1) Pursuant to Va. Code § 45.1-361.20, the Board hereby modifies the Roaring Fork Field Rules to except from their operation CBM gas produced from the Subject Formations from within the Bullitt Mine CBM SGU A through G; and (2) establishes the Bullitt Mine CBM SUG A through G, each of which unit is described in Composite Exhibits A-1 through A-7 hereof. A Coalbed Methane Gas well drilled within the Bullitt Mine CBM SGU A through G shall not be located at any point that is less than 300 feet from the boundary of the Unit.



8. Special Findings: The Board specifically and specially finds:

8.1 Applicant is a West Virginia corporation, duly authorized and qualified to transact business in the Commonwealth of Virginia;

8.2 Applicant is an operator in the Commonwealth of Virginia, and has satisfied the Board's requirements for operations in Virginia;

8.3 The Board has heretofore established 80-acre drilling units in the Roaring Fork Coalbed Methane Gas Field (See Board Order in VGOB 94-0215-0435, herein "Roaring Fork Field Rules") for the area underlying and comprised of Subject Lands. Paragraph 5.3 of the Roaring Fork Field Rules provide " . . . This order shall not apply to coalbed methane gas wells drilled into the gob area of any mine or any conventional gas well." The Board finds that the gob area of the Bullitt Mine consists of the Subject Formations underlying Subject Lands; therefore, any coalbed methane gas well drilled into Subject Formations underlying Subject Lands is not subject to the requirements of the Roaring Fork Field Rules, but are subject to the provisions of this order establishing the Bullitt Mine CBM SUG Drilling A through G;

8.4 Subject Lands overlie a mined-out and sealed areas of the Bullitt Mine that are depicted as "Gob Gas Units A through G" on Composite Exhibit A-1 through A-7 hereto;

8.5 Applicant testified that the mined-out areas of the Bullitt Mine underlying Subject Lands and comprising Subject Drilling Units has been sealed. The Bullitt Mine's operations that created the gob area in the Subject Drilling Units was in the Dorchester coal seam. The mine maps attached to the application filed herein and attached hereto as part of Composite Exhibits A-1 through A-7 indicate that mining has been completed within the area of the Bullitt Mine underlying Subject Lands. Testimony revealed that mine seals were installed to create seven (7) separate sealed gob areas depicted as Bullitt Mine CBM SGU A through G. At midnight of the day on which the construction of the seals to isolate the mine works shown on Composite Exhibits A-1 through A-7 were completed, said area ceased being subject to the provisions of the Roaring Fork Field Rules, and previous Board orders which pooled interests within any of the 80-acre Roaring Fork drilling units created by the Roaring Fork Field Rules and underlying Subject Lands were no longer applicable to the allocation of production of Gas from the Wells located within Subject Drilling Units;

8.6 Set forth in Exhibit B is the name and last known address of each gas or oil owners, coal owner, or mineral owner identified by the Applicant as having an interest underlying Subject Drilling Units;

8.7 Relief requested and granted is just and reasonable, is supported by substantial evidence and will afford each person listed and named in Exhibit B hereto the opportunity to recover or receive, without unnecessary expense, such person's just and fair share of the

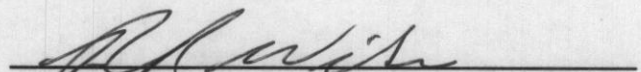
production from Subject Drilling Units. The granting of the Application and relief requested therein will ensure to the extent possible the greatest ultimate recovery of Coalbed Methane Gas, conform to mine plans and promote mine safety, prevent or assist in preventing the various types of waste prohibited by statute and protect or assist in protecting the correlative rights of all persons in the subject common sources of supply in the Subject Lands. Therefore, the Board is entering an Order granting the relief herein set forth.

9. **Mailing Of Order And Filing Of Affidavit:** Applicant or its Attorney shall file an affidavit with the Secretary of the Board within sixty (60) days after the date of recording of this Order stating that a true and correct copy of said Order was mailed within seven (7) days from the date of its receipt to each Respondent named in Exhibit B.
10. **Conclusion:** The terms and provisions set forth in Paragraph 5 above hereby are granted and IT IS SO ORDERED.
11. **Appeals:** Appeals of this Order are governed by the provisions of Va. Code Ann. § 45.1-361.9 which provides that any order or decision of the Board may be appealed to the appropriate circuit court in the manner set forth therein.
12. **Effective Date:** This Order is effective as of September 22, 1999.

DONE AND EXECUTED this 27<sup>th</sup> day of April, 2000, by a majority of the Virginia Gas and Oil Board:

  
Chairman, Benny R. Wampler

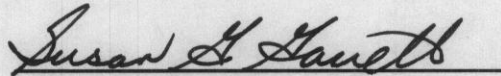
DONE AND PERFORMED this 2<sup>ND</sup> day of MAY, 2000, by Order of this Board.

  
B. R. Wilson  
Acting Principal Executive To The Staff  
Virginia Gas and Oil Board



STATE OF VIRGINIA       )  
COUNTY OF WISE        )

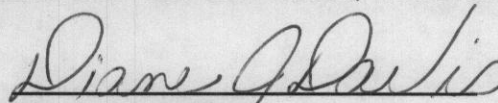
Acknowledged on this 27<sup>th</sup> day of April, 2000, personally before me a notary public in and for the Commonwealth of Virginia, appeared Benny Wampler, being duly sworn did depose and say that he is Chairman of the Virginia Gas and Oil Board, that he executed the same and was authorized to do so.

  
Susan G. Garrett  
Notary Public

My commission expires July 31, 2002

STATE OF VIRGINIA       )  
COUNTY OF WASHINGTON   )

Acknowledged on this 2<sup>nd</sup> day of May, 2000, personally before me a notary public in and for the Commonwealth of Virginia, appeared B. R. Wilson, being duly sworn did depose and say that he is Acting Principal Executive to the Staff of the Virginia Gas and Oil Board, that he executed the same and was authorized to do so.

  
Diane J. Davis  
Notary Public

My commission expires September 30, 2001

**Exhibit No. 1**

**BULLITT MINE**

**CBM Gob Gas Units**

*within the*

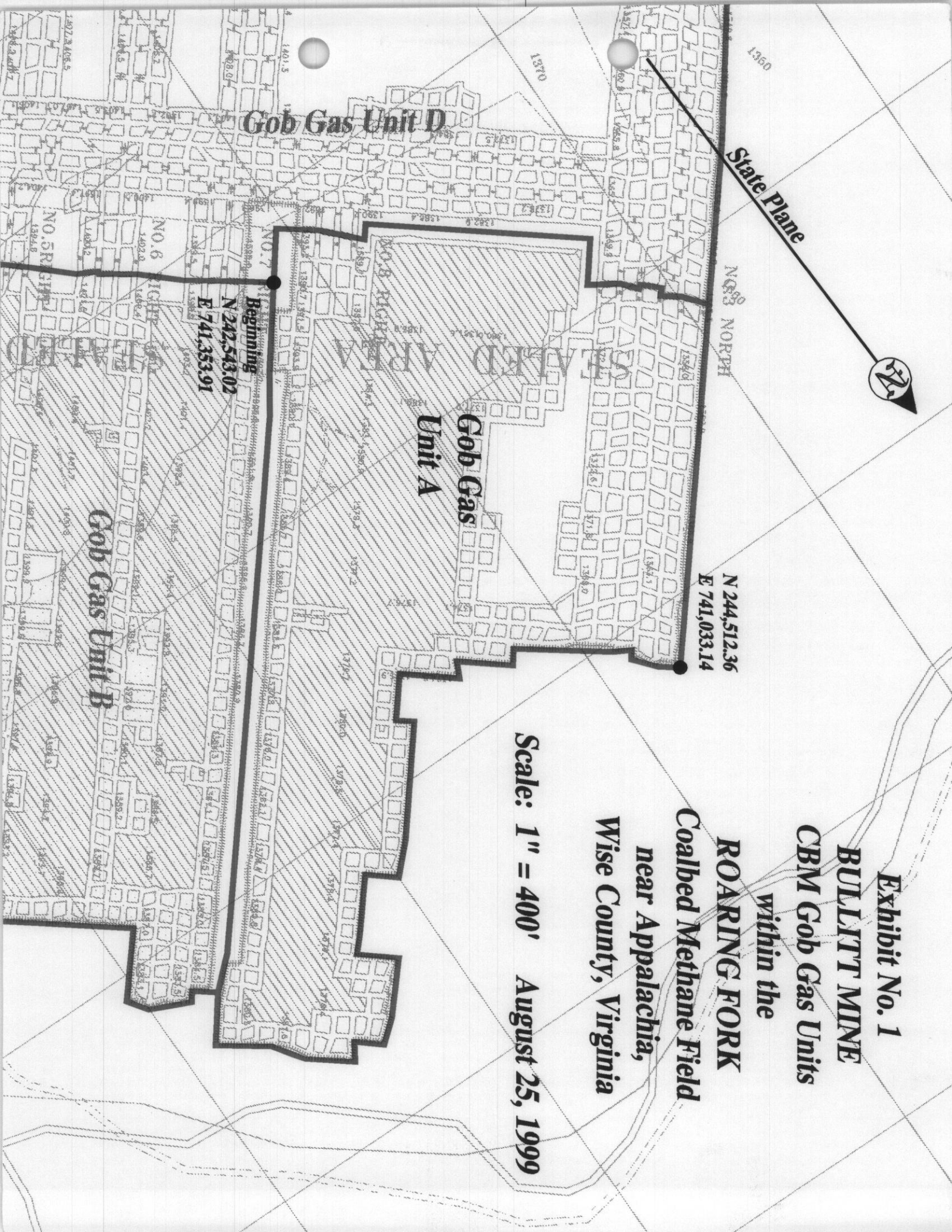
**ROARING FORK**

**Coalbed Methane Field**

**near Appalachia,**

**Wise County, Virginia**

**Scale: 1" = 400'    August 25, 1999**



**Gob Gas Unit D**

**State Plane**

**NO. 3 NORTH**

**Beginning**  
**N 242,543.02**  
**E 741,353.91**

**Gob Gas**  
**Unit A**

**N 244,512.36**  
**E 741,033.14**

**Gob Gas Unit B**



Bullitt Mine CBM Gob Gas Unit A:

BEGINNING at a point near the south corner of Unit A, said point having the State Plane Coordinate location, NAD 27, Virginia South Zone, of N 242,543.02, E 741,353.91 and said point being a common corner to Units B and D, thence leaving Unit B and running with lines of Unit D

S 40-05-55 W, 193.47 feet to the south corner of Unit A, thence

N 50-23-02 W, 150.55 feet, thence N 41-21-30 W, 166.94 feet, thence S 41-57-56 W, 55.55 feet, thence N 48-53-36 W, 802.60 feet, thence N 40-53-44 E, 164.95 feet, thence N 54-58-35 W, 116.29 feet, thence N 36-36-03 W, 71.02 feet, thence S 51-01-25 W, 16.53 feet, thence N 44-01-02 W, 77.09 feet, thence N 45-07-30 E, 28.36 feet, thence N 49-59-15 W, 76.25 feet, thence N 36-43-39 W, 100.19 feet, thence leaving Unit D

N 41-51-30 E, 1,298.15 feet to a point having the State Plane Coordinate location of N 244,512.36, E 741,033.14, thence

S 50-36-42 E, 78.90 feet, thence S 37-34-03 E, 98.82 feet, thence S 37-00-00 W, 32.87 feet, thence S 57-24-55 E, 66.18 feet, thence S 51-10-14 E, 354.23 feet, thence N 39-32-46 E, 59.20 feet, thence S 48-38-24 E, 200.65 feet, thence N 28-07-29 E, 61.76 feet, thence S 48-24-09 E, 214.10 feet, thence N 41-35-49 E, 166.43 feet, thence N 49-38-00 W, 64.90 feet, thence N 41-17-20 E, 422.69 feet, thence N 47-11-49 E, 138.38 feet, thence S 47-48-07 E, 120.27 feet, thence N 41-59-50 E, 218.75 feet, thence N 46-05-03 E, 68.96 feet, thence N 47-48-04 W, 150.33 feet, thence N 43-37-37 E, 214.83 feet, thence N 52-06-50 E, 104.40 feet, thence S 47-08-23 E, 106.72 feet, thence N 34-52-50 E, 73.60 feet, thence S 49-28-34 E, 177.27 feet, thence S 31-51-38 E, 128.41 feet, thence S 52-12-25 E, 199.49 feet, thence S 39-25-04 W, 193.58 feet, to a point being a common corner of Units A and B, thence running with lines of Unit B

S 50-06-44 W, 144.60 feet, thence S 41-41-08 W, 1,925.34 feet, thence S 37-00-00 W, 157.39 feet, thence S 40-05-55 W, 321.80 feet to the Beginning, the mined-out area just within and approximated by the above described area containing 65.0 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No. 1 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 400 feet and being dated August 25, 1999.

**EXHIBIT B**

Penn Virginia Coal Company  
P.O. Box 386  
Duffield, VA 24244

Penn Virginia Oil & Gas Corporation  
P.O. Box 387  
Duffield, VA 24244

Georgia Industrial Realty Company  
8 North Jefferson Street  
Roanoke, VA 24042-0001





State Plane

N 239,907.57  
E 728,979.32

Exhibit No. 6

BULLITT MINE

CBM Gob Gas Units

within the

ROARING FORK

Coalbed Methane Field

near Appalachia,

Wise County, Virginia

Scale: 1" = 1,000'

August 25, 1999

Gob Gas  
Unit F

Gob Gas Unit E

Beginning  
N 240,866.93  
E 735,582.10

Gob Gas Unit G

Gob Gas  
Unit D

Bullitt Mine CBM Gob Gas Unit D:

BEGINNING at a point near the north corner of said Unit D, said point having a State Plane Coordinate location, NAD 27, Virginia South Zone, of N 242,543.02, E 741,353.91 and said point being a common corner to Units A and B, thence leaving Unit A and running with the line of Unit B

S 49-54-05 E, 95.74 feet, thence S 51-28-19 E, 228.38 feet, thence S 45-10-45 E, 156.70 feet, thence S 51-46-48 E, 143.10 feet, thence S 18-34-48 W, 9.63 feet, thence S 59-50-55 E, 76.65 feet, thence S 44-16-39 E, 160.96 feet, thence S 46-19-45 E, 235.99 feet, thence S 60-25-52 E, 117.47 feet, thence S 37-14-13 E, 123.36 feet, thence S 53-00-00 E, 63.92 feet, thence S 31-30-39 E, 249.61 feet, thence S 44-34-04 E, 166.17 feet, thence S 65-32-14 E, 84.20 feet, thence S 46-55-22 E, 287.76 feet, thence S 48-46-08 E, 304.94 feet, thence S 49-39-31 E, 301.83 feet, to a point being a common corner of Units B, C, and D, thence leaving Unit B and running with Unit C

S 11-21-03 W, 200.17 feet, thence S 48-29-25 E, 771.19 feet, thence N 43-42-17 E, 57.66 feet, thence S 49-34-25 E, 394.57 feet, thence N 43-30-56 E, 118.67 feet, thence N 43-55-46 E, 251.12 feet, thence N 34-16-33 E, 70.82 feet, thence N 39-23-03 E, 80.92 feet, thence N 69-42-55 E, 56.06 feet, thence N 37-05-24 E, 122.39 feet, thence N 52-56-10 E, 49.05 feet, thence N 29-24-41 E, 50.98 feet, thence N 45-44-21 E, 44.31 feet, thence S 68-57-20 E, 24.51 feet, thence N 25-41-53 E, 154.59 feet, thence S 74-48-59 E, 18.13 feet, thence N 42-02-22 E, 114.98 feet, thence N 66-43-41 E, 27.15 feet, thence N 41-33-16 E, 466.36 feet, thence N 14-23-35 E, 43.79 feet, thence N 49-31-14 E, 59.34 feet, thence leaving Unit C

S 49-26-25 E, 77.79 feet, thence N 41-15-34 E, 365.93 feet, thence S 43-12-38 E, 66.65 feet, thence N 40-56-18 E, 495.95 feet, thence N 44-20-48 W, 64.07 feet, thence N 41-27-21 E, 495.61 feet, thence N 48-54-50 W, 63.58 feet, thence N 40-18-32 E, 274.71 feet, thence N 42-38-39 E, 207.26 feet, thence S 51-30-14 E, 63.43 feet, thence N 41-07-50 E, 613.74 feet, thence N 41-50-08 E, 859.82 feet, thence S 45-52-13 E, 255.65 feet, thence N 43-00-18 E, 86.60 feet, thence S 47-23-47 E, 232.14 feet, thence S 41-27-13 W, 1919.23 feet, thence N 44-55-33 W, 61.91 feet, thence S 42-11-24 W, 63.83 feet, thence S 30-21-52 E, 112.63 feet, thence S 57-23-49 W, 132.56 feet, thence S 37-02-37 E, 84.09 feet, thence S 56-40-45 W, 291.54 feet, thence N 55-07-18 W, 78.02 feet, thence S 40-56-35 W, 84.00 feet, thence N 50-30-24 W, 66.48 feet, thence S 41-56-48 W, 368.35 feet, thence S 44-20-32 E, 134.36 feet, thence S 41-39-14 W, 572.29 feet, thence S 47-38-26 E, 92.81 feet, thence N 41-04-55 E, 81.12 feet, thence S 46-18-55 E, 322.71 feet, thence N 45-07-30 E, 20.43 feet, thence S 42-27-17 E, 174.04 feet, thence S 42-18-39 W, 249.58 feet, thence S 48-01-36 E, 266.66 feet, thence S 38-07-22 W, 147.40 feet, thence S 48-58-05 E, 84.51 feet, thence S 39-46-38 W, 297.98 feet, thence N 44-51-56 W, 102.09 feet, thence S 45-54-32, 149.17 feet, thence S 49-06-47 E, 515.72 feet, thence N 42-40-59 E, 247.19 feet, thence S 49-10-02 E, 555.41 feet, thence S 53-43-18 E, 96.75 feet, thence S 45-54-00 E, 183.97 feet, thence S 40-19-43 W, 583.73 feet, thence S 41-28-53 W, 1189.91 feet, thence S 73-51-03 W, 92.48 feet, thence S 36-10-55 W, 215.85 feet, thence N 44-51-47 W, 87.15 feet, thence S 41-39-01 W, 266.04 feet, thence N 47-33-20 W, 194.99 feet, thence S 42-03-13 W, 349.77 feet, thence N 47-17-10 W, 61.93 feet, thence S 41-06-51 W, 473.97 feet, thence S 08-42-59 W, 91.03 feet, thence



S 23-46-07 W, 215.38 feet, thence N 72-02-16 W, 189.04 feet, thence S 16-06-38 E, 123.28 feet, thence S 75-17-37 E, 796.58 feet, thence S 04-55-32 W, 214.68 feet, thence S 30-54-03 W, 149.24 feet, thence N 75-26-51 W, 363.37 feet, thence S 12-47-17 E, 468.02 feet, thence S 33-20-06 W, 240.99 feet, thence S 42-59-18 E, 53.19 feet, thence S 72-58-59 E, 351.68 feet, thence S 13-48-47 W, 46.96 feet, thence N 73-43-04 W, 418.36 feet, thence S 52-37-57 W, 80.04 feet, to a point being a common corner of Units D and G, thence running with the lines of Unit G

N 68-52-18 W, 148.31 feet, thence N 85-45-20 W, 51.29 feet, thence N 65-16-23 W, 72.52 feet, thence N 00-08-36 E, 15.41 feet, thence N 83-29-01 W, 60.78 feet, thence S 04-32-48 W, 40.19 feet, thence N 73-33-14 W, 3126.11 feet, thence N 08-07-20 W, 48.28 feet, thence N 73-23-21 W, 146.67 feet, thence N 45-41-21 W, 154.45 feet, thence S 57-22-53 W, 203.56 feet, thence N 52-00-41 W, 124.50 feet, thence S 55-25-15 W, 20.37 feet, thence N 50-02-11 W, 124.65 feet, thence S 41-57-57 W, 99.17 feet, thence N 58-56-32 W, 63.08 feet, thence N 29-52-50 E, 17.32 feet, thence N 63-10-57 W, 85.04 feet, thence N 58-44-07 W, 360 feet, thence N 50-33-00 W, 4504.30 feet, thence S 39-26-06 W, 132.89 feet, thence N 31-37-00 W, 69.73 feet, thence S 42-11-22 W, 31.20 feet, thence N 29-47-13 W, 64.50 feet, thence N 39-19-11 E, 209.22 feet, thence N 57-58-22 W, 65.17 feet, thence N 37-00-00 E, 31.08 feet, thence N 59-47-38 W, 119.40 feet, thence S 40-21-55 W, 48.11 feet, thence N 47-50-21 W, 94.30 feet, thence S 35-24-34 W, 101.74 feet, to a point being a common corner of Units D, F and G, thence leaving Unit G and running with the lines of Unit F

N 50-50-59 W, 226.28 feet, thence N 48-00-55 W, 617.74 feet, thence N 77-03-51 W, 97.10 feet, thence N 44-07-24 E, 22.77 feet, thence N 50-45-49 W, 579.15 feet, thence N 39-05-11 E, 542.75 feet, to a point being a common corner of Units D, E and F having a State Plane Coordinate location of N 240,866.93 E 735,582.10 thence leaving Units F and running with the lines of Unit E

S 53-00-00 E, 160.91 feet, thence N 45-05-22 E, 180.38 feet, thence S 52-57-14 E, 72.71 feet, thence N 38-54-28 E, 604.73 feet, thence N 49-59-01 W, 76.61 feet, thence N 40-27-56 E, 133.21 feet, thence N 78-09-58 E, 128.45 feet, thence N 37-00-00 E, 72.53 feet, thence N 40-56-33 E, 351.38 feet, thence N 48-33-04 W, 37.59 feet, thence N 38-23-47 E, 99.15 feet, thence N 49-31-41 W, 79.87 feet, thence N 38-54-29 E, 145.13 feet, thence N 81-58-45 E, 95.70 feet, thence N 39-46-20 E, 549.43 feet, thence N 52-24-18 W, 65.31 feet, thence N 39-57-33 E, 140.41 feet, thence N 81-58-50 E, 95.70 feet, thence N 37-39-02 E, 212.76 feet, thence N 40-38-17 E, 339.92 feet, thence N 49-49-07 W, 62.22 feet, thence N 38-25-50 E, 138.19 feet, thence N 78-45-04 E, 103.87 feet, thence N 38-42-31 E, 231.50 feet, thence N 40-10-40 E, 311.31 feet, thence N 47-33-25 W, 72.80 feet, thence N 40-12-29 E, 159.81 feet, thence leaving Unit E

N 76-26-41 E, 65.14 feet, thence S 53-47-07 E, 25.93 feet, thence N 39-34-45 E, 529.41 feet, thence N 50-21-22 W, 224.57 feet, thence N 59-21-55 E, 190.46 feet, thence S 47-51-03 E, 66.09 feet, thence N 81-02-26 E, 148.94 feet, thence N 38-18-02 E, 152.00 feet, thence S 63-53-35 E, 91.38 feet, thence S 51-21-42 E, 241.69 feet, thence S 39-24-33 W, 3570.49 feet, thence

S 32-49-10 E, 82.12 feet, thence S 39-42-26 W, 803.76 feet, thence S 50-34-53 E, 129.71 feet, thence S 46-45-12 E, 162.95 feet, thence S 86-09-56 E, 148.15 feet, thence S 50-08-03 E, 101.36 feet, thence N 40-51-55 E, 459.75 feet, thence N 56-49-01 W, 152.19 feet, thence N 46-05-00 W, 84.13 feet, thence N 40-10-45 E, 45.66 feet, thence N 50-36-41 W, 60.79 feet, thence N 37-00-00 E, 63.32 feet, thence N 49-16-56 W, 158.16 feet, thence N 41-02-06 E, 215.81 feet, thence S 50-08-03 E, 50.68 feet, thence N 87-10-25 E, 39.55 feet, thence N 32-14-22 E, 60.99 feet, thence N 53-58-47 E, 95.33 feet, thence S 47-16-58 E, 50.87 feet, thence N 39-02-39 E, 141.92 feet, thence N 49-37-47 W, 43.10 feet, thence N 23-05-43 E, 84.16 feet, thence N 51-27-36 E, 81.08 feet, thence S 46-24-49 E, 66.24 feet, thence N 59-22-01 E, 46.56 feet, thence N 44-14-39 W, 33.29 feet, thence N 52-56-11 E, 36.87 feet, thence S 47-05-21 E, 97.38 feet, thence N 39-00-30 E, 144.45 feet, thence N 40-38-23 E, 1256.36 feet, thence N 43-26-12 E, 316.05 feet, thence N 73-51-00 E, 101.28 feet, thence S 48-53-09 E, 767.62 feet, thence N 39-33-16 E, 567.89 feet, thence N 42-04-17 E, 579.07 feet, to a point being a common corner of Units A & D, thence running with lines of Unit C S 36-43-39 E, 100.19 feet, thence S 49-59-15 E, 76.25 feet, thence S 45-07-30 W, 28.36 feet, thence S 44-01-22 E, 77.09 feet, thence N 51-01-25 E, 16.53 feet, thence S 36-36-03 E, 71.02 feet, thence S 54-58-35 E, 116.29 feet, thence S 40-53-44 W, 164.95 feet, thence S 48-53-36 E, 802.60 feet, thence N 41-57-56 E, 55.55 feet, thence S 41-21-30 E, 166.94 feet, thence S 50-23-02 E, 150.55 feet, thence N 40-05-55 E, 193.47 feet to the Beginning, the mined-out area just within and approximated by the above described area containing 1179.8 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No. 4 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 1,000 feet and being dated August 25, 1999.



**Exhibit No. 5**

**BULLITT MINE**

**CBM Gob Gas Units**

**within the**

**ROARING FORK**

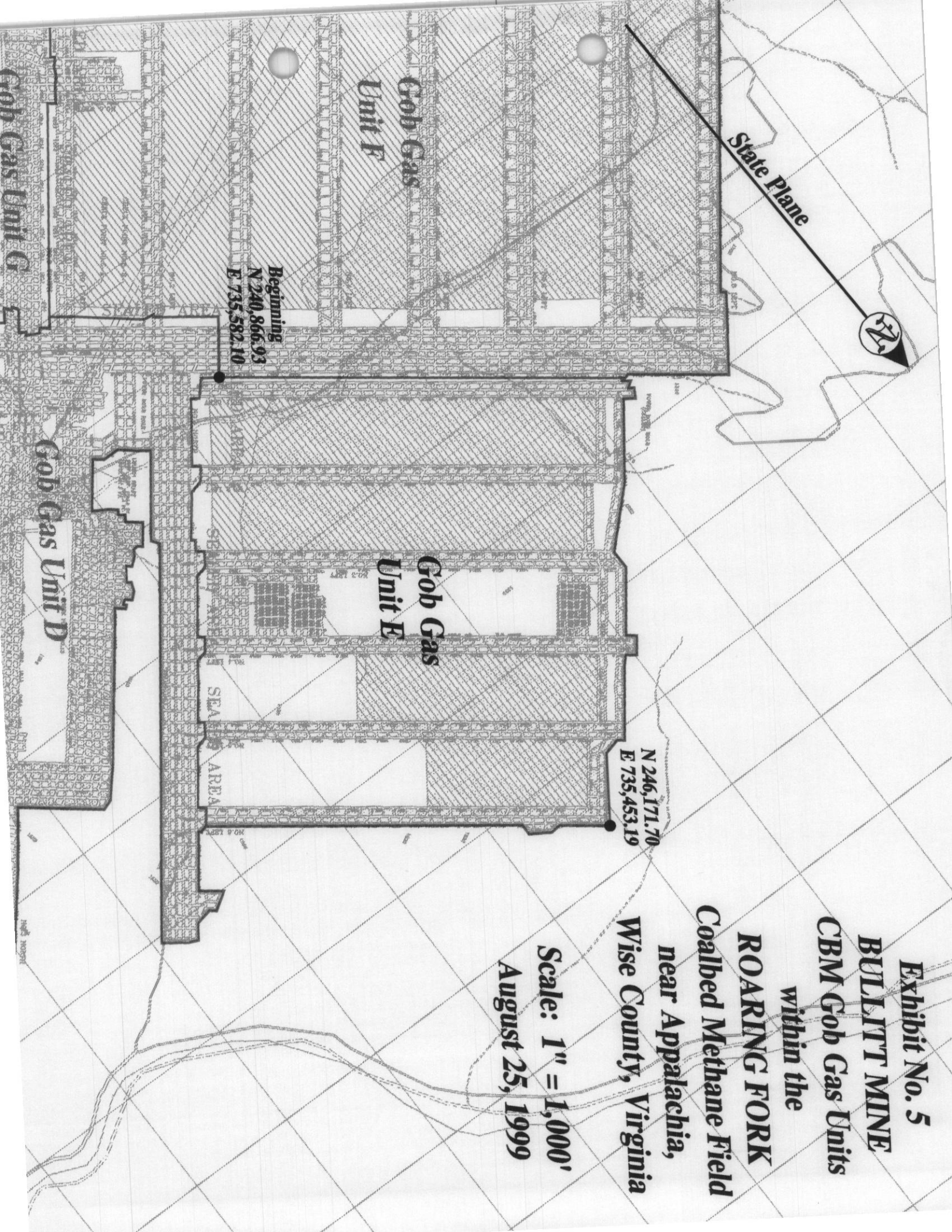
**Coalbed Methane Field**

**near Appalachia,**

**Wise County, Virginia**

**Scale: 1" = 1,000'**

**August 25, 1999**



Bullitt Mine CBM Gob Gas Unit E:

BEGINNING at a point near the south corner of said Unit E, said point having the State Plane Coordinate location, NAD 27, Virginia South Zone, of N 240,866.93, E 735,582.10 and said point being a common corner to Units D and F, thence leaving Unit D and running with the lines of Unit F

N 50-15-42 W, 3,627.68, thence leaving Unit F

N 85-20-42 E, 33.31 feet, thence N 48-45-42 W, 74.86 feet, thence N 58-21-26 E, 68.33 feet, thence N 54-20-21 W, 52.88 feet, thence N 31-48-31 E, 96.40 feet, thence S 53-00-00 E, 109.01 feet, thence N 39-00-29 E, 746.64 feet, thence N 48-13-27 E, 627.27 feet, thence N 01-18-46 E, 171.92 feet, thence N 39-54-05 E, 604.90 feet, thence N 47-48-07 W, 96.33 feet, thence N 39-51-36 E, 174.76 feet, thence S 50-30-35 E, 100.39 feet, thence N 44-45-37 E, 96.89 feet, thence N 39-38-05 E, 663.98 feet, thence S 49-25-11 E, 69.91 feet, thence N 78-19-40 E, 145.27 feet, thence N 37-24-06 E, 651.48 feet, to a point having the State Plane Coordinate location of N 246,171.70, E 735,453.19

S 50-14-45 E, 454.02 feet, thence N 86-37-06 E, 87.93 feet, thence S 55-26-18 E, 205.13 feet, S 02-38-19 W, 100.44 feet, thence S 50-38-42 E, 2,817.58 feet, thence S 03-01-46 E, 10.10 feet, to a point being a common corner of Units D and E, thence running with lines of Unit D S 40-12-29 W, 159.81 feet, thence S 47-33-25 E, 72.80 feet, thence S 40-10-40 W, 311.31 feet, thence S 38-42-31 W, 231.50 feet, thence S 78-45-04 W, 103.87 feet, thence S 38-25-50 W, 138.19 feet, thence S 49-49-07 E, 62.22 feet, thence S 40-38-17 W, 339.92 feet, thence S 37-39-02 W, 212.76 feet, thence S 81-58-50 W, 95.70 feet, thence S 39-57-33 W, 140.41 feet, thence S 52-24-18 E, 65.31 feet, thence S 39-46-20 W, 549.43 feet, thence S 81-58-45 W, 95.70 feet, thence S 38-54-29 W, 145.13 feet, thence S 49-31-41 E, 79.87 feet, thence S 38-23-47 W, 99.15 feet, thence S 48-33-04 E, 37.59 feet, thence S 40-56-33 W, 351.38 feet, thence S 37-00-00 W, 72.53 feet, thence S 78-09-58 W, 128.45 feet, thence S 40-27-56 W, 133.21 feet, thence S 49-59-01 E, 76.61 feet, thence S 38-54-28 W, 604.73 feet, thence N 52-57-14 W, 72.71 feet, thence S 45-05-22 W, 180.38 feet, thence N 53-00-00 W, 160.91 feet, to the Beginning, the mined-out area just within and approximated by the above described area containing 342.7 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No. 5 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 1,000 feet and being dated August 25, 1999.



Bullitt Mine CBM Gob Gas Unit F:

BEGINNING at a point near the east corner of said Unit F, said point having the State Plane Coordinate location, NAD 27, Virginia South Zone, of N 240,866.93, E 735,582.10 and said point being a common corner to Units D and E, thence leaving Unit E and running with the lines of Unit D

S 39-05-11 W, 542.75 feet, thence S 50-45-49 E, 579.15 feet, thence S 44-07-24 W, 22.77 feet, thence S 77-03-51 E, 97.10 feet, thence S 48-00-55 E, 617.74 feet, thence S 50-50-59 E, 226.28 feet, to a point being a common corner of Units D, F and G, thence leaving Unit D and running with the lines of Unit G

S 39-25-41 W, 1904.63 feet, thence N 50-47-52 W, 71.94 feet, thence S 38-00-17 W, 157.73 feet, thence S 46-27-20 W, 84.15 feet, thence S 27-13-28 W, 81.42 feet, S 44-07-08 W, 89.23 feet, thence S 51-15-37 E, 41.39 feet, thence S 39-18-25 W, 2,955.15 feet, thence leaving Unit G N 51-53-50 W, 143.80 feet, thence N 25-34-38 W, 84.10 feet, thence N 41-34-15 E, 69.39 feet, thence N 50-18-13 W, 235.28 feet, thence N 46-27-24 E, 67.32 feet, thence N 62-25-18 W, 135.69 feet, thence N 52-36-54 W, 411.98 feet, thence N 09-49-38 W, 121.32 feet, thence N 50-34-06 W, 2,365.70 feet, thence N 24-00-06 W, 670.98 feet, thence N 48-50-14 W, 259.18 feet, thence N 19-08-57 W, 692.82 feet, thence N 46-13-45 W, 279.24 feet, thence N 51-39-03 W, 805.65 feet, to a point having the State Plane Coordinate location of N 239,907.57, E 728,979.32

N 39-26-47 E, 4,189.07 feet, thence N 47-48-09 W, 51.91 feet, thence N 38-05-38 E, 738.54 feet, thence S 50-06-28 E, 904.61 feet, thence N 79-15-08 E, 41.12 feet, to a point being a common corner of Units E and F, thence running with line of Unit E

S 50-15-42 E, 3,627.68 feet, to the Beginning, the mined-out area just within and approximated by the above described area containing 712.2 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No. 6 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 1,000 feet and being dated August 25, 1999.

Bullitt Mine CBM Gob Gas Unit G:

BEGINNING at a point near the north corner of said Unit G, said point having the State Plane Coordinate location, NAD 27, Virginia South Zone, of N 239,485.15, E 736,401.92 and said point being a common corner to Units D and F, thence leaving Unit F and running with the lines of Unit D

N 35-24-34 E, 101.74 feet, thence S 47-50-21 E, 94.30 feet, thence N 40-21-55 E, 48.11 feet, thence S 59-47-38 E, 119.40 feet, thence S 37-00-00 W, 31.08 feet, thence S 57-58-22 E, 65.17 feet, thence S 39-19-11 W, 209.22 feet, thence S 29-47-13 E, 64.50 feet, thence N 42-11-22 E, 31.20 feet, thence S 31-37-00 E, 69.73 feet, thence N 39-26-06 E, 132.89 feet, S 50-33-00 E, 4,504.30 feet, thence S 58-44-07 E, 360.00 feet, thence S 63-10-57 E, 85.04 feet, thence S 29-52-50 W, 17.32 feet, thence S 58-56-32 E, 63.08 feet, thence N 41-57-57 E, 99.17 feet, thence S 50-02-11 E, 124.65 feet, thence N 55-25-15 E, 20.37 feet, thence S 52-00-41 E, 124.50 feet, thence N 57-22-53 E, 203.56 feet, thence S 45-41-21 E, 154.45 feet, thence S 73-23-21 E, 146.67 feet, thence S 08-07-20 E, 48.28 feet, thence S 73-33-14 E, 3,126.11 feet, thence N 04-32-48 E, 40.19 feet, thence S 83-29-01 E, 60.78 feet, thence S 00-08-36 W, 15.41 feet, thence S 65-16-23 E, 72.52 feet, thence S 85-45-20 E, 51.29 feet, thence S 68-52-18 E, 148.31 feet, thence leaving Unit D

S 06-11-04 W, 56.25 feet, thence S 76-58-36 E, 61.06 feet, thence S 02-48-09 W, 93.76 feet, thence N 80-54-59 W, 59.63 feet, thence S 01-57-45 W, 762.39 feet, thence S 54-20-34 W, 103.99 feet, thence N 84-12-13 W, 137.71 feet, N 58-42-52 W, 155.76 feet, thence N 00-45-53 E, 57.68 feet, thence N 84-37-33 W, 47.32 feet, thence N 04-10-02 W, 32.96 feet, thence S 37-00-00 W, 96.16 feet, thence S 54-16-26 E, 139.52 feet, thence S 15-12-45 W, 100.22 feet, thence S 38-28-04 W, 363.04 feet, thence S 46-39-19 E, 56.14 feet, thence S 39-37-08 W, 954.40 feet, thence N 47-48-07 W, 68.48 feet, thence S 39-17-21 W, 2,340.05 feet, thence S 48-55-48 E, 133.68 feet, thence S 39-15-33 W, 235.93 feet, thence N 51-41-50 W, 136.42 feet, thence S 39-18-27 W, 384.95 feet, thence N 48-01-37 W, 71.56 feet, thence S 41-08-54 W, 474.00 feet, thence N 37-27-55 W, 57.91 feet, thence S 40-41-21 W, 96.36 feet, thence S 41-18-11 E, 91.80 feet, thence S 54-05-30 W, 84.38 feet, thence S 40-44-56 W, 379.24 feet, thence S 37-44-03 W, 241.97 feet, thence N 50-16-19 W, 65.17 feet, thence S 33-30-25 W, 149.82 feet, thence N 52-25-36 W, 309.99 feet, thence S 37-00-00 W, 37.22 feet, thence S 43-31-53 E, 37.71 feet, thence S 39-29-17 W, 71.41 feet, thence S 53-00-00 E, 49.60 feet, thence S 20-30-25 W, 87.34 feet, thence S 66-43-37 W, 175.03 feet, thence S 32-55-00 W, 43.54 feet, thence S 50-17-23 W, 175.30 feet, S 87-59-23 W, 83.77 feet, thence N 49-02-11 W, 84.82 feet, thence S 41-45-27 W, 37.35 feet, thence N 45-51-58 W, 49.98 feet, thence S 40-48-42 W, 46.63 feet, thence N 53-00-00 W, 65.09 feet, thence S 38-44-05 W, 204.82 feet, thence N 50-36-45 W, 74.46 feet, thence S 38-06-39 W, 187.34 feet, thence N 82-50-16 W, 293.02 feet, thence S 39-23-03 W, 223.53 feet, thence N 53-00-00 W, 65.09 feet, thence S 30-22-20 W, 134.28 feet, thence N 51-43-34 W, 139.52 feet, thence S 45-07-26 W, 65.80 feet, thence S 50-30-32 E, 71.36 feet, thence S 35-35-13 W, 251.33 feet, thence S 38-37-35 W, 342.48 feet, thence N 53-00-00 W, 86.79 feet, thence S 34-24-02 W, 68.31 feet, thence N 55-43-41 W, 65.17 feet, thence S 37-00-00 W, 74.44 feet, thence N 50-23-44 W, 68.26 feet, thence S 37-00-00 W, 155.10 feet, thence S 53-00-00 E, 145.69 feet, thence S 50-39-45 W, 118.11 feet, thence S 52-19-32 E, 263.49 feet, thence S 39-17-20 W, 232.83 feet, thence N 53-00-00 W, 96.09 feet, thence S 37-00-00 W, 83.75 feet, thence S 50-57-11 E, 86.85 feet, thence S 39-04-52 W, 341.43 feet, thence N 51-44-43 W, 90.08 feet, thence S 39-17-16 W, 77.61 feet,



thence N 49-11-00 W, 46.60 feet, thence S 39-17-16 W, 77.61 feet, thence N 48-42-29 W, 124.34 feet, thence N 53-00-00 W, 77.49 feet, thence S 32-55-00 W, 43.54 feet, thence N 51-03-

55 W, 552.71 feet, thence S 49-31-11 W, 114.39 feet, thence S 30-39-52 W, 112.35 feet, thence S 41-23-46 W, 80.89 feet, thence N 50-21-20 W, 201.69 feet, thence S 40-10-41 W, 167.76 feet, thence N 31-10-52 W, 50.08 feet, thence S 37-00-00 W, 62.04 feet, thence N 59-18-48 W, 29.30 feet, thence S 40-16-05 W, 217.49 feet, thence N 49-07-08 W, 183.30 feet, thence S 37-00-00 W, 183.01 feet, thence N 48-35-54 W, 121.25 feet, thence S 40-11-24 W, 398.53 feet, thence N 53-00-00 W, 182.88 feet, thence S 37-00-00 W, 37.22 feet, thence N 53-00-00 W, 164.28 feet, thence N 40-10-39 E, 447.36 feet, thence N 50-21-25 W, 2,293.59 feet, thence S 39-29-30 W, 291.96 feet, thence N 42-15-10 W, 182.99 feet, thence N 57-29-16 W, 158.57 feet, thence N 41-45-28 E, 37.35 feet, thence N 50-47-11 W, 482.00 feet, thence S 39-23-45 W, 972.59 feet, thence N 60-22-49 W, 97.40 feet, thence N 21-33-09 W, 65.40 feet, thence N 62-05-47 W, 78.48 feet, thence N 46-52-49 W, 87.29 feet, thence N 39-45-02 W, 108.27 feet, to point having a State Plane coordinate location of N 229,193.09, E 732,196.17

N 39-26-50 E, 2,253.06 feet, thence N 50-41-57 W, 1,855.09 feet, thence N 39-39-28 E, 260.87 feet, thence N 49-11-00 W, 46.60 feet, thence N 24-28-46 E, 85.79 feet, thence N 41-58-01 E, 143.23 feet, thence N 60-07-47 W, 49.98 feet, thence N 48-29-41 W, 394.88 feet, thence N 34-00-50 E, 196.49 feet, thence N 53-00-00 W, 154.98 feet, thence N 37-00-00 E, 49.63 feet, thence N 57-11-16 W, 127.43 feet, thence N 38-56-24 E, 732.47 feet, thence N 50-36-07 W, 216.73 feet, thence S 74-51-15 W, 35.06 feet, thence N 56-10-56 W, 110.82 feet, thence S 37-00-00 W, 39.98 feet, thence N 70-32-17 W, 61.25 feet, thence S 51-01-29 W, 38.05 feet, thence N 52-58-16 W, 40.79 feet, thence N 34-00-05 W, 48.94 feet, thence N 37-33-21 E, 319.51 feet, thence N 42-06-26 W, 82.07 feet, thence N 37-33-41 E, 304.70 feet, thence N 39-01-18 E, 1,142.21 feet, thence N 51-15-44 W, 32.70 feet, to a point being a common corner of Units F and G thence running with lines of Unit F

N 39-18-25 E, 2,955.15 feet, thence N 51-15-37 W, 41.39 feet, thence N 44-07-08 E, 89.23 feet, thence N 27-13-28 E, 81.42 feet, thence N 46-27-20 E, 84.15 feet, thence N 38-00-17 E, 157.73 feet, thence S 50-47-52 E, 71.94 feet, thence N 39-25-41 E, 1,904.63 feet, to the Beginning, the mined-out area just within and approximated by the above described area containing 1,943.8 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No. 7 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 1,000 feet and being dated August 25, 1999.

Bullitt Mine CBM Gob Gas Unit B:

BEGINNING at a point at the west corner of said Unit B, said point having the State Plane Coordinate location, NAD 27, Virginia South Zone, of N 242,543.02, E 741,353.91 and said point being a common corner to Units A and D, thence leaving Unit D and running with the lines of Unit A

N 40-05-55 E, 321.80 feet, thence N 37-00-00 E, 157.39 feet, thence N 41-41-08 E, 1,925.34 feet, thence N 50-06-44 E, 144.60 feet, thence leaving Unit A

S 49-42-45 E, 92.87 feet, thence N 38-30-03 E, 39.78 feet, thence S 63-12-42 E, 154.65 feet, thence S 31-56-58 E, 84.80 feet, thence S 42-18-38 W, 263.10 feet, thence S 49-44-14 E, 481.74 feet, thence N 41-36-27 E, 189.48 feet, thence S 46-23-17 E, 52.83 feet, thence N 41-37-56 E, 113.08 feet, thence N 49-25-14 W, 48.80 feet, thence N 42-42-25 E, 61.22 feet, thence S 48-58-09 E, 216.66 feet, thence S 37-00-00 W, 48.74 feet, thence S 53-00-00 E, 63.92 feet, thence S 41-09-32 W, 281.04 feet, thence S 57-24-10 E, 79.38 feet, thence S 47-07-06 E, 208.09 feet, thence S 37-27-52 E, 113.74 feet, thence S 41-17-10 W, 122.19 feet, thence S 50-45-08 E, 155.37 feet, thence S 42-19-41 W, 229.46 feet, thence S 49-25-21 E, 97.60 feet, thence S 42-42-24 W, 206.03 feet, thence S 28-12-35 E, 43.59 feet, thence S 53-00-00 E, 188.73 feet, thence S 40-34-26 W, 146.50 feet, thence S 50-16-16 E, 64.00 feet, thence S 41-14-00 W, 82.47 feet, thence S 49-10-33 E, 412.42 feet, thence S 41-23-44 W, 79.44 feet, thence S 50-45-44 E, 159.06 feet, thence S 43-20-04 W, 82.75 feet, thence S 53-00-00 E, 85.23 feet, to a point being a common corner of Units B and C, thence running with lines of Unit C

S 40-36-02 W, 921 feet, thence S 47-17-04 E, 61.19 feet, thence S 40-34-53 W, 587.22 feet to a point being a common corner of Units B, C and D having the State Plane Coordinate location of N 240,660.68, E 743,396.81 thence leaving Unit C and running with lines of Unit D

N 49-39-31 W, 301.83 feet, thence N 48-46-08 W, 304.94 feet, thence N 46-55-22 W, 287.76 feet, thence N 65-32-14 W, 84.20 feet, thence N 44-34-04 W, 166.17 feet, thence N 31-30-39 W, 249.61 feet, thence N 53-00-00 W, 63.92 feet, thence N 37-14-13 W, 123.36 feet, thence N 60-25-52 W, 117.47 feet, thence N 46-19-45 W, 235.99 feet, thence N 44-16-39 W, 160.96 feet, thence N 59-50-55 W, 76.65 feet, thence N 18-34-48 E, 9.63 feet, thence N 51-46-48 W, 143.10 feet, thence N 45-10-45 W, 156.70 feet, thence N 51-28-19 W, 228.38 feet, thence N 49-54-05 W, 95.74 to the Beginning, the mined-out area just within and approximated by the above described area containing 124.8 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No. 2 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 400 feet and being dated August 25, 1999.



NO.4 LEFT



State Plane

Exhibit No. 3

BULLITT MINE

CBM Gob Gas Units

within the

ROARING FORK

Coalbed Methane Field

near Appalachia,

Wise County, Virginia

Scale: 1" = 400' August 25, 1999

Gob Gas Unit B

Beginning  
N 240,660.68  
E 743,396.81

Gob Gas  
Unit C

N 241,000.88  
E 745,419.29

Gob Gas Unit D

0.14

Bullitt Mine CBM Gob Unit C:

BEGINNING at a point at the west corner of said Unit C, said point having the State Plane Coordinate location, NAD 27, Virginia South Zone, of N 240,660.68, E 743,396.81 and said point being a common corner to Units B and D, thence leaving Unit D and running with the lines of Unit B

N 40-34-53 E, 587.22 feet, thence N 47-17-04 W, 61.19 feet, thence N 40-36-02 E, 921.00 feet, thence leaving Unit B

S 50-58-59 E, 277.90 feet, thence N 45-07-24 E, 47.64 feet, thence S 48-29-04 E, 169.89 feet, thence N 44-21-28 E, 44.28 feet, thence S 48-58-01 E, 925.28 feet, thence S 49-31-14 W, 25.95 feet, to a point being a common corner of Units C and D, and having the State Plane Coordinate location of N 241,000.88, E 745,419.29 thence running with lines of Unit D

S 49-31-14 W, 59.34 feet, thence S 14-23-35 W, 43.79 feet, thence S 41-33-16 W, 466.36 feet, thence S 66-43-41 W, 27.15 feet, thence S 42-02-22 W, 114.98 feet, thence N 74-48-59 W, 18.13 feet, thence S 25-41-53 W, 154.59 feet, thence N 68-57-20 W, 24.51 feet, thence S 45-44-21 W, 44.31 feet, thence S 29-24-21 W, 50.98 feet, thence S 52-56-10 W, 49.05 feet, thence

S 37-05-24 W, 122.39 feet, thence S 69-42-55 W, 56.06 feet, thence S 39-23-03 W, 80.92 feet, thence S 34-16-33 W, 70.82 feet, thence S 43-55-46 W, 251.12 feet, thence S 43-30-56 W, 118.67 feet, thence N 49-34-25 W, 394.57 feet, thence S 43-42-17 W, 57.66 feet, thence N 48-29-25 W, 771.19 feet, thence N 11-21-03 E, 200.17 feet, to the Beginning, the mined-out area

just within and approximated by the above described area containing 44.3 acres, more or less, as shown on the map attached hereto and made a part hereof, said map being labeled "Exhibit No.

3 BULLITT MINE CBM Gob Gas Units," and having a scale of 1 inch equals 400 feet and being dated August 25, 1999.



State Plane



N 229,193.09  
E 732,196.17

Exhibit No. 7

**BULLITT MINE**

CBM Gob Gas Units

within the

**ROARING FORK**

Coalbed Methane Field

near Appalachia,

Wise County, Virginia

Scale: 1" = 1,000'

August 25, 1999

Gob Gas Unit F

Beginning  
N 239,485.15  
E 736,401.92

Gob Gas  
Unit G

▲ Stonega 23  
N 235,097.57  
E 738,208.40

Gob Gas  
Unit D





State Plane

**Exhibit No. 2**  
**BULLITT MINE**  
**CBM Gob Gas Units**  
**within the**  
**ROARING FORK**  
**Coalbed Methane Field**  
**near Appalachia,**  
**Wise County, Virginia**  
**Scale: 1" = 400'**  
**August 25, 1999**

**Gob Gas Unit A**

**Gob Gas Unit B**

**Gob Gas Unit C**

**Gob Gas Unit D**

**Beginning**  
**N 242,543.02**  
**E 741,353.91**

**N 240,660.68**  
**E 743,396.81**

